

**INTERNATIONAL ORGANIZATION FOR STANDARDIZATION****ISO/IEC JTC1/SC29/WG12**

*Multimedia and Hypermedia information coding  
Expert Group (MHEG)*

**MHEG 98/N1191**

---

**Date:** March 1999  
**Source:** WG 12  
**Title:** Subdivision: ISO/IEC 13522-8 XML Notation for ISO/IEC 13522-5  
**Status:** For SC29's Approval  
**Requested Action:**  
**Distribution:** MHEG Members, Mail list reflectors and  
<http://www.mheg.org>

---

**Purpose**

The proposal is to subdivide ISO/IEC 13522 as follows:

**Title:** XML Notation for ISO/IEC 13522-5

**Project No:** JTC1.29.06.08 (13522-8)

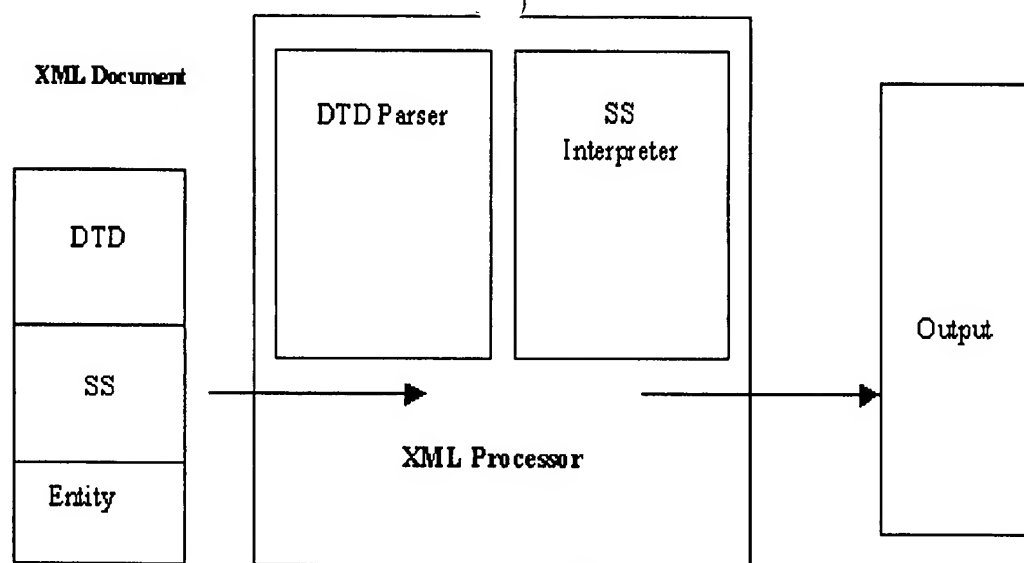
**Schedule and Support**

Target Dates:	WD	CD	FCD	FDIS	IS
	7-99	12-99	3-2000	11-2000	02-2001

**Editors:** UK will provide co-editor ( based on receiving approval of Employer),  
Other NB's will be asked to provide another co-editor

**Supporting National Bodies** Germany, Ireland, Japan, Korea, Netherlands, UK

**Scope**



An XML document consists of two parts: a Document Type Definition (DTD), and an optional second component, a Style Sheet (SS). An XML capable browser, such as Microsoft Internet Explorer 5.0, will incorporate a DTD parser and a Style Sheet interpreter that will be able to combine and render the two components into a final displayed document. In the case of an MHEG application the XML processor creates an output that is processed by the MHEG engine. The situation is summarised in the diagram above.

The working group believes that the expression of the full notation of the MHEG-5 standard should be a fairly straightforward matter and that it will be possible to produce a specification of XML that is isomorphic to the MHEG - 5 Text Notation and the ASN.1 code within the time frame of the above schedule.

The work would produce the following outcomes:

- an XML definition of the MHEG-5 external representation;
- a description of the information to be contained in the style sheet.

### Justification

This work will provide a mechanism by which MHEG-5 applications can exploit the technology used in the Internet community, and provide an easy migration path for reuse of applications by both the Broadcast and Internet communities. Such a notation may enhance the productivity of content and application developers from both communities. It will constitute a valuable first step towards the wider aim of integrating MHEG-5 with existing Web technologies. Successful conclusion of the work may have an impact on the question of MHEG-5 Engine construction, since future XML-capable browsers may have the capacity to render MHEG-5 objects.

Conversely MHEG - 5 engines will provide Internet users with a standardised open method for handling events, and internal behaviour of many objects which can not be dealt with in the web technologies of today.

As we are proposing an alternative notation, no modifications to other Parts of ISO 13522 will be necessary.